BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, YELAHANAKA DIVISION

Name of Work: Construction of Rangamandira at Doddabettahalli Govt. School in Attur ward no.04

DETAILED ESTIMATE

							Estimated Cost=	100.00	Lakhs
Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
1	Earth work excavation by **manual means for** drains,canals, waste weir draft, approach channels, key trench, **foundation** of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. **In ordinary/soft rock without blasting upto 1.5 m depth** (KPWD SR 2021-22, Volume-I, Item No.1.5.1, Page No.6)								
		Cum							
	Ranga Mandira:- Footing,s		12	1.80	1.80	2.00	77.76		
	CCL		1	53.60	0.90	1.20	57.89		
	Sump		1	4.80	3.60	2.40	41.47		
	Skin Wall		1	25.00	0.90	1.20	27.00		
	Entrance Main Gate:- Foundations		1	7.65	0.90	1.80	12.39		
	Columns		4	1.80	0.45	1.80	5.83		
	Cobble:-School Front		1	36.00	12.00	0.23	99.36		
	Concreting		1	36.00	4.50	0.23	37.26		
	Kerb Line		2	36.00	0.30	0.15	3.24		
							Total Quantity	**362.21**	**251.90**	**91239.44**
	Rate Analysis								
	Basic Rate	229.00							
	Area Weightage @10%	22.90							
	Total Amount	**251.90**							
2	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits with Chlorpyriphos 20% E.C. / Lindane 20% E.C. @ 3.19 l/m2 including cost of chemical, diluting in water to one percent concentration, labour, usage charges of machinery, complete as per specifications. (KPWD SR 2021-22, Volume-II, Item No.4.1, Page No.5)								
		Sqm							
	Ranga Mandira:- Footing,s		12	1.80	1.80		38.88		
	CCL		1	53.60	0.90		48.24		
	Sump		1	4.80	3.60		17.28		
	Skin Wall		1	25.00	0.90		22.50		
	Entrance Main Gate:- Foundations		1	7.65	0.90		6.89		
	Columns		4	1.80	0.45		3.24		
							Total Quantity	**137.03**	**104.50**	**14319.11**
	Rate Analysis								
	Basic Rate	95.00							
	Area Weightage @10%	9.50							
	Total Amount	**104.50**							

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
3	Providing and Filling in foundation with **granite / trap broken metal 100mm.** and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS 2.10.2 (KWPD 2021-22, V-II, Item No.6.4)2nd Corrigendum as on 21.04.2022								
		Cum							
	Ranga Mandira:- Footing,s		12	1.80	1.80	0.30	11.66		
	Flooring		1	17.60	8.60	0.15	22.70		
	CCL		1	53.60	0.90	0.15	7.24		
	Sump		1	4.80	3.60	0.15	2.59		
	Skin Wall		1	25.00	0.90	0.15	3.38		
	Entrance Main Gate:- Foundations		1	7.65	0.90	0.15	1.03		
	Columns		4	1.80	0.45	0.30	0.97		
						Total Quantity	**49.58**	**2817.10**	**139659.85**
	Rate Analysis								
	Basic Rate	2561.00							
	Area Weightage @10%	256.10							
	Total Amount	**2817.10**							
4	**Filling available excavated earth** (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. (KWPD 2021-22, V-I, Item No.1.9, Page No.7)								
		Cum							
	Total Earth work qty						362.21		
	Deduction for Broken Metal Qty						-49.58		
	Deduction for PCC Qty						-175.24		
	Deduction for SSM Qty						-63.05		
	Deduction for Footing						-20.09		
	Deduction for Column						-17.62		
						Total Quantity	**36.63**	**224.40**	**8219.10**
	Rate Analysis								
	Basic Rate	204.00							
	Area Weightage @10%	20.40							
	Total Amount	**224.40**							
5	Providing and laying in position **plain cement concrete Mix 1:4:8(M5)** Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.2, Page No.15)								
		Cum							
	Ranga Mandira:-Footing,s		12	1.80	1.80	0.15	5.83		
	CCL		1	53.60	0.90	0.15	7.24		
	Sump		1	4.80	3.60	0.15	2.59		
	Skin Wall		1	25.00	0.90	0.15	3.38		
	Entrance Main Gate:-Foundations		1	7.65	0.90	0.15	1.03		
	Columns		4	1.80	0.45	0.15	0.49		
	Cobble:-School Front		1	36.00	12.00	0.20	86.40		
			1	36.00	4.50	0.15	24.30		
	Kerb Line		2	36.00	0.30	0.15	3.24		
	For RCC Drain		1	30.00	1.25	0.15	5.63		
	Inside Flooring		1	17.60	8.60	0.15	22.70		
	Alround Flagging Concrete		2	17.60	1.50	0.15	7.92		

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	For RCC Drain		1	30.00	1.00	0.15	4.50		
						Total Quantity	175.24	5726.60	1003545.13
	Rate Analysis								
	Basic Rate	5206.00							
	Area Weightage @10%	520.60							
	Total Amount	**5726.60**							
6	Providing and laying in position **Reinforced cement concrete M25** Using 20 mm nominal size graded crushed coarse aggregates for **all Sub structures of building,** Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.3, Page No.17)								
		Cum							
	Ranga Mandira:-Footing,s		12	1.50	1.50	0.60	16.20		
	Entrance Main Gate:-Footing		2	1.80	1.80	0.60	3.89		
						Total Quantity	20.09	6788.94	136376.15
	Rate Analysis								
	Basic Rate	5992.00							
	For Centering Work 3% from P No.115, It No.1b	179.76							
	Area Weightage @10%	617.18							
	Total Amount	**6788.94**							
7	Providing and laying in position **Reinforced cement concrete M25** Using 20 mm nominal size graded crushed coarse aggregates for **all Sub structures of building,** Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.3, Page No.17)								
		Cum							
	Column upto Plinth								
	Column Pedestral		12	0.75	0.75	0.95	6.41		
	For Gate		2	0.90	0.90	0.75	1.22		
	For Sump								
	Bottom Raft		1	4.20	2.85	0.30	3.59		
	Side Walls		2	3.90	0.25	2.10	4.10		
			2	2.20	0.25	2.10	2.31		
						Total Quantity	17.62	7250.32	127776.01
	Rate Analysis								
	Basic Rate	5992.00							
	For Centering Work 10% from P No.115, It No.8	599.20							
	Area Weightage @10%	659.12							
	Total Amount	**7250.32**							

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
8	Providing and laying in position **Reinforced cement concrete M25** Design Mix Using 20 mm nominal size graded crushed coarse aggregates for **all Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.2, Page No.17)								
		Cum							
	Column Above Plinth								
	Column for Gate		2	0.45	0.45	3.60	1.46		
	Head Room Columns		4	0.45	0.20	1.95	0.70		
						Total Quantity	**2.16**	**7485.06**	**16167.73**
	Rate Analysis								
	Basic Rate	6186.00							
	For Centering Work 10% from P No.115, It No.8	618.60							
	Area Weightage @10%	680.46							
	Total Amount	**7485.06**							
9	Providing and laying in position **Reinforced cement concrete M25** Design Mix Using 20 mm nominal size graded crushed coarse aggregates for **all Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.2, Page No.17)								
		Cum							
	Plinth Beam		1	53.60	0.45	0.45	10.85		
	For Gate Plinth Beam		1	6.65	0.45	0.45	1.35		
	Top Beam		1	6.65	0.45	0.45	1.35		
	Wicket Gate Steps		6	1.05	0.30	0.15	0.28		
	Sump Slab		1	4.20	2.85	0.15	1.80		
	Head Room Beams		2	6.00	0.20	0.30	0.72		
			2	0.30	0.20	0.30	0.04		
	Head Room Slab		1	6.90	3.85	0.15	3.98		
						Total Quantity	**20.37**	**8165.52**	**166307.15**
	Rate Analysis								
	Basic Rate	6186.00							
	For Centering Work 20% from P No.115, It No.8	1237.20							
	Area Weightage @10%	742.32							
	Total Amount	**8165.52**							

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
10	Providing **Size Stone masonry** with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (KWPD 2021-22, V-II, Item No.5.4, Page No.9)								
		Cum							
	For Foundation								
	Step-1		1	53.60	0.75	0.40	16.08		
	Step-2		1	53.60	0.60	0.40	12.86		
	Step-3		1	53.60	0.45	0.45	10.85		
	Skin Wall								
	Step-1		1	25.00	0.75	0.40	7.50		
	Step-2		1	25.00	0.60	0.60	9.00		
	Step-2		1	25.00	0.45	0.60	6.75		
						Total Quantity	**63.05**	**5887.20**	**371176.19**
	Rate Analysis								
	Basic Rate	5352.00							
	Area Weightage @10%	535.20							
	Total Amount	**5887.20**							
11	Providing and laying in position Reinforced **cement concrete Mix 1:2:4 (M15)** Using 20 mm nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.1, Page No.17)								
		Cum							
	Coping Concrete		1	53.60	0.45	0.10	2.41		
	Skin Wall		1	25.00	0.45	0.10	1.13		
	Flooring: School Front		1	36.00	12.00	0.10	43.20		
			1	36.00	4.50	0.10	16.20		
	Alround Flagging Concrete		2	17.60	1.50	0.10	5.28		
						Total Quantity	**68.22**	**6468.00**	**441227.56**
	Rate Analysis								
	Basic Rate	5880.00							
	Area Weightage @10%	588.00							
	Total Amount	**6468.00**							
12	Providing **Thermo-Mechanically Treated bars of grade Fe-500D** or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) (KWPD 2021-22, V-II, Item No.11.32, Page No.84)								
		Kgs							
	Considering 110Kgs per cum of Concrete								
	Vide qty from item no.	6	1	20.09			20.09		
	Vide qty from item no.	7	1	17.62			17.62		
	Vide qty from item no.	8	1	2.16			2.16		
	Vide qty from item no.	9	1	20.37			20.37		
							60.24	Cum	

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
				110kgs per cum of Concrete			6626.24		
						Total Quantity	6626.24	105.60	699730.42
	Rate Analysis								
	Basic Rate	96.00							
	Area Weightage @10%	9.60							
	Total Amount	105.60							
13	Providing and constructing load bearing wall with **Solid Concrete blocks of size 400x200x200mm** having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KWPD 2021-22, V-II, Item No.6.32, Page No.17)								
		Sqm							
	Rangamandira Walls		2	18.00		0.60	21.60		
			1	9.00		0.60	5.40		
						Total Quantity	27.00	1315.60	35521.20
	Rate Analysis								
	Basic Rate	1196.00							
	Area Weightage @10%	119.60							
	Total Amount	1315.60							
14	Providing and constructing load bearing wall with **Solid Concrete blocks of size 400x200x200mm** having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. For Second Floor (KWPD 2021-22, V-II, Item No.6.32, Page No.17)								
		Sqm							
	Head Room		2	5.50		1.95	21.45		
			2	3.00		1.95	11.70		
	Deductions								
	Door		-1	0.90		2.10	-1.89		
	Window		-1	1.50		1.50	-2.25		
						Total Quantity	29.01	1341.91	38928.87
	Rate Analysis								
	Basic Rate	1196.00							
	Lift Charges for Second Floor 2%	23.92							
	Sub Total Amount	1219.92							
	Area Weightage @10%	121.99							
	Total Amount	1341.91							
15	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)								
		Sqm							
	Rangamandira		4	18.00		0.70	50.40		
			2	9.00		0.70	12.60		
						Total Quantity	63.00	328.90	20720.70
	Rate Analysis								
	Basic Rate	299.00							
	Area Weightage @10%	29.90							
	Total Amount	328.90							

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
16	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)								
		Sqm							
	External Plastering								
	For Head Room		2	5.50		2.10	23.10		
			2	3.00		2.10	12.60		
	Deductions								
	Door		-1	0.90		2.10	-1.89		
	Window .		-1	1.50		1.50	-2.25		
	Internal Plastering								
	For Head Room		2	5.10		1.95	19.89		
			2	2.60		1.95	10.14		
	Deductions								
	Door		-1	0.90		2.10	-1.89		
	Window		-1	1.50		1.50	-2.25		
						Total Quantity	**57.45**	**335.48**	**19273.21**
	Rate Analysis								
	Basic Rate	299.00							
	Lift Charges for Second Floor 2%	5.98							
	Sub Total Amount	**304.98**							
	Area Weightage @10%	30.50							
	Total Amount	**335.48**							
17	Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.. (KWPD 2021-22, V-II, Item No.8.1.1, Page No.41)								
		Sqm							
	Head Room Ceiling		1	5.50	3.00		16.50		
			1	3.85	0.90		3.47		
						Total Quantity	**19.97**	**238.99**	**4771.36**
	Rate Analysis								
	Basic Rate	213.00							
	Lift Charges for Second Floor 2%	4.26							
	Sub Total Amount	**217.26**							
	Area Weightage @10%	21.73							
	Total Amount	**238.99**							
18	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.30, Page No.46)								
		Sqm							
	Vide qty from item no.	15					63.00		
						Total Quantity	**63.00**	**149.60**	**9424.80**
	Rate Analysis								
	Basic Rate	136.00							
	Area Weightage @10%	13.60							
	Total Amount	**149.60**							

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
19	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications: Two coats applied on walls @ 1.25 ltr/10 m² over and including one coat of Special primer applied @ 0.75 ltr /10 m² with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.33.1, Page No.46)								
		Sqm							
	Stilt Floor								
	Vide qty from item no.	16					57.45		
	Vide qty from item no.	17					19.97		
						Total Quantity	**77.42**	**129.80**	**10048.47**
	Rate Analysis								
	Basic Rate	118.00							
	Area Weightage @10%	11.80							
	Total Amount	**129.80**							
20	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge. (KWPD 2021-22, V-II, Item No.8.51, Page No.50)								
		Sqm							
	Stilt Floor								
	Vide qty from item no.	15					63.00		
	Vide qty from item no.	16					57.45		
	Vide qty from item no.	17					19.97		
						Total Quantity	**140.42**	**91.30**	**12819.89**
	Rate Analysis								
	Basic Rate	83.00							
	Area Weightage @10%	8.30							
	Total Amount	**91.30**							
21	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc. (KWPD 2021-22, V-II, Item No.11.34B, Page No.84)								
		Kgs							
	For Windows								
	For Head Room		1	1.50		1.50	2.25		
	Grill Work for FF Varandha								
			1	1.50		1.80	2.70		
			1	14.75		1.80	26.55		
			1	30.45		1.80	54.81		
			1	1.50		1.80	2.70		
							89.01		
						21Kgs per sq	1869.21		
						Total Quantity	**1869.21**	**174.90**	**326924.83**
	Rate Analysis								
	Basic Rate	159.00							
	Area Weightage @10%	15.90							
	Total Amount	**174.90**							

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
22	Providing & fixing of 2-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having a overall size of 60mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mm X 58mm with GI reinforcement of 1mm for the frame and 1.5 mm for the sash. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 2-2.5 mm. Maximum possible size – 1819mm x 1819mm (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)(KWPD 2021-22, V-II, Item No.12.88, Page No.111)								
		Sqm							
	For Windows								
	For Head Room		1	1.50		1.50	2.25		
						Total Quantity	**2.25**	**7052.10**	**15867.23**
	Rate Analysis								
	Basic Rate	6411.00							
	Area Weightage @10%	641.10							
	Total Amount	**7052.10**							
23	Providing and fixing **Steel work welded** in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (KWPD 2021-22, V-II, Item No.11.25.2, Page No.82)								
		Kgs							
	Head Room Door		1	0.90		2.10	1.89		
	Main Gate		1	4.50		2.40	10.80		
	Wicket Gate		2	1.05		1.80	3.78		
						65Kgs per Sqm	1070.55		
						Total Quantity	**1070.55**	**134.20**	**143667.81**
	Rate Analysis								
	Basic Rate	122.00							
	Area Weightage @10%	12.20							
	Total Amount	**134.20**							
24	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(KWPD 2021-22, V-II, Item No.8.40, Page No.48)								
		Sqm							
	For Windows								
	For Head Room		2	1.50		1.50	4.50		
	Head Room Door		2	0.90		2.10	3.78		
	Main Gate		2	4.50		2.40	21.60		
	Wicket Gate		4	1.05		1.80	7.56		
	Grill Work for FF Varandha								
			2	1.50		1.80	5.40		
			2	14.75		1.80	53.10		
			2	30.45		1.80	109.62		
			2	1.50		1.80	5.40		
						Total Quantity	**210.96**	**99.00**	**20885.04**
	Rate Analysis								
	Basic Rate	90.00							
	Area Weightage @10%	9.00							

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	Total Amount	99.00							
25	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (KWPD 2021-22, V-II, Item No.11.28, Page No.84)								
		Kgs							
	Ground Floor Varandha		1	1.50		0.90	1.35		
			1	14.75		0.90	13.28		
			1	30.45		0.90	27.41		
			1	1.50		0.90	1.35		
	Rangamandira Alround		1	44.20		0.90	39.78		
	Skin Wall		1	25.00		0.90	22.50		
	Deductions								
	Door		-6	1.20		0.90	-6.48		
							99.18		
						12Kgs per sqm	1190.16		
						Total Quantity	**1190.16**	**550.00**	**654588.00**
	Rate Analysis								
	Basic Rate	500.00							
	Area Weightage @10%	50.00							
	Total Amount	**550.00**							
26	Providing and laying **Polished Granite stone flooring** in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. (KWPD 2021-22, V-II, Item No.9.24, Page No.63)								
		Sqm							
	Flooring		1	17.60	8.60		151.36		
	Side Walls Alround Skirting		2	17.60		0.60	21.12		
			1	8.60		0.60	5.16		
	Steps:-Threads		8	9.00	0.30		21.60		
	Rises		9	9.00		0.15	12.15		
	Columns		2	1.80		3.60			
	Beam		1	6.65	1.35		8.98		
	Wicket Gate Steps:-Threads		6	1.05	0.30		1.89		
	Rises		6	1.05		0.15	0.95		
						Total Quantity	**223.20**	**3157.00**	**704650.29**
	Rate Analysis								
	Basic Rate	2870.00							
	Area Weightage @10%	287.00							
	Total Amount	**3157.00**							
27	Providing and fixing **Structural Steel work** riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (KWPD 2021-22, V-II, Item No.11.2, Page No.75)								
		Kgs							
	Stilt Floor								

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	(Vertical MS Poles:-65 kg/1Mtr) Columns		12	6.00			72.00		
						65Kgs per mtr	4680.00		
	(Truss:-45 kg/1Mtr) Horizontal Trusses		6	12.00			72.00		
						45Kgs per mtr	3240.00		
	(Purlins:-20 kg/1Mtr) Purlins		10	18.00			180.00		
						20Kgs per mtr	3600.00		
						Total Quantity	11520.00	114.40	1317888.00
	Rate Analysis								
	Basic Rate	104.00							
	Area Weightage @10%	10.40							
	Total Amount	114.40							
28	Providing and laying **non-asbestos high impact polypropylene reinforced corrugated cement roofing sheet** reinforced with a blend of strong factory made fibers as per IS:14871 and ISO:9933:1995(E) roofing upto any pitch and fixing with polymer coated J or L hooks,bolts and nuts 8mm dia,G.I plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete but excluding the cost of purlins, rafters and trusses. Including cutting to size and shape of corrugated sheets wherever required.and cost of materials, labour, complete as per specifications With other colours (KWPD 2021-22, V-II, Item No.7.45.2, Page No.30)								
		Sqm							
			1	18.00	12.00		216.00		
						Total Quantity	216.00	590.70	127591.20
	Rate Analysis								
	Basic Rate	537.00							
	Area Weightage @10%	53.70							
	Total Amount	590.70							
29	Providing and Applying PU based Elastomeric Liquid Applied PU **Waterproofing Membrane** single component, cold applied, water based acrylic PU dispersion with highly elastic and UV resistant water proofing treatment to the Existing **Roof surface/Chajjas/Sunken portion of WC:Bathroom** applied @ 1.2L/per m2,having tensile strength greater than 1.5N/mm2, elongation greater than 300% with solid content not less than 60% in 2 coats including surface preparation, priming the surface with water based acrylic primer @0.1 L/m2, and spreading 60 gsm geotextile between two top coats completely as per specification. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In harge. (KWPD 2021-22, V-II, Item No.15.2, Page No.133)								
		Sqm							
	Head Room Slab		1	6.90	3.90		26.91		
	Sump		1	3.90	2.60		10.14		
	Rangamandira Flooring		1	17.60	8.60		151.36		
						Total Quantity	188.41	632.50	119169.33
	Rate Analysis								
	Basic Rate	575.00							
	Area Weightage @10%	57.50							
	Sub Total Amount	632.50							

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
30	**Earth work excavation by manual means** In all kinds of soils Depth upto 1.5 m for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (KWPD 2021-22, V-I, Item No.1.4.1, Page No.5)								
		Cum							
	For RCC Drain		1	30.00	1.25	1.00	37.50		
						Total Quantity	**37.50**	**204.60**	**7672.50**
	Rate Analysis								
	Basic Rate	186.00							
	Area Weightage @10%	18.60							
	Sub Total Amount	**204.60**							
31	Providing and laying in position **Reinforced cement concrete M20** Using 20 mm nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.2, Page No.17)								
		Cum							
	For RCC Drain	Raft	1	30.00	1.05	0.15	4.73		
		Wall	2	30.00	0.15	0.60	5.40		
						Total Quantity	**10.13**	**6893.04**	**69792.03**
	Rate Analysis								
	Basic Rate	5968.00							
	Centering Foundation, Sub structure of Cross drainages 5%	298.40							
	Area Weightage @10%	626.64							
	Sub Total Amount	**6893.04**							
32	Supplying, Fitting and Placing **TMT Fe 500** & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. (KWPD 2021-22, V-III, Item No.9.3, Page No.71)								
		Tonne							
	Considering 60Kgs per cum of concrete for RCC Drain								
			1	10.13		0.06	0.61		
						Total Quantity	**0.61**	**92472.60**	**56177.10**
	Rate Analysis								
	Basic Rate	84066.00							
	Area Weightage @10%	8406.60							
	Sub Total Amount	**92472.60**							

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
33	Providing & laying **precast drain cover slab of 100 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge (Approved Rate)								
		Sqm							
			1	30.00	0.75		22.50		
						Total Quantity	**22.50**	**2279.20**	**51282.00**
	Rate Analysis								
	Basic Rate	2072.00							
	Area Weightage @10%	207.20							
	Sub Total Amount	**2279.20**							
34	Providing and fixing **pre cast solid cement concrete kerb stones** made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete as per the directions of Engineer in-charge. (Approved Rate)								
		Nos							
			2	35.00		"/0.45	156.00		
						Total Quantity	**156.00**	**557.70**	**87001.20**
	Rate Analysis								
	Basic Rate	507.00							
	Area Weightage @10%	50.70							
	Sub Total Amount	**557.70**							
35	**Painting Two Coats on New Concrete Surfaces** Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (KWPD 2021-22, V-III, Item No.8.10, Page No.56)								
		Sqm							
			2	35.00			70.00		
						Total Quantity	**70.00**	**93.50**	**6545.00**
	Rate Analysis								
	Basic Rate	85.00							
	Area Weightage @10%	8.50							
	Sub Total Amount	**93.50**							
36	**Construction of Embankment by excavating the available approved Gravel/Murrum** deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour, rolling, water, all materials,usage& all other appurtenaces required to complete the work. (KWPD 2021-22, V-I, Item No.1.8, Page No.7)								
		Cum							
	Flooring-School Front		1	36.00	12.00	0.30	129.60		
			1	36.00	4.50	0.30	48.60		
						Total Quantity	**178.20**	**442.20**	**78800.04**
	Rate Analysis								
	Basic Rate	402.00							
	Area Weightage @10%	40.20							
	Sub Total Amount	**442.20**							

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
37	Construction of **Granular Sub-Base For Grading -II** Material of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 (KWPD 2021-22, V-III, Item No.4.1(ii), Page No.19)								
		Cum							
	Flooring-School Front		1	36.00	12.00	0.20	86.40		
			1	36.00	4.50	0.20	32.40		
						Total Quantity	**118.80**	**2636.70**	**313239.96**
	Rate Analysis								
	Basic Rate	2397.00							
	Area Weightage @10%	239.70							
	Sub Total Amount	**2636.70**							
38	Providing and laying **heavy duty cobble stones 60mm thick** interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications. (KWPD 2021-22, V-II, Item No.9.31, Page No.64)								
		Sqm							
	Flooring-School Front		1	36.00	12.00		432.00		
			1	36.00	4.50		162.00		
						Total Quantity	**594.00**	**1195.70**	**710245.80**
	Rate Analysis								
	Basic Rate	1087.00							
	Area Weightage @10%	108.70							
	Sub Total Amount	**1195.70**							
	ELECTRIC WORK								
39	Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. a) 19/20 mm dia 2 mm thick (ELE SR 2021-22 Page-1, Item-1.1.1)								
		m							
	a) 19/20 mm dia 2 mm thick								
	Concealed Conduit System		1	150.00			150.00		
						Total Qty	**150.00**	**68.00**	**10200.00**
40	Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. b) 25mm dia 2mm thick (ELE SR 2021-22 Page-1, Item-1.1.2)								
		m							
	b) 25mm dia 2mm thick								
	Concealed Conduit System		1	120.00			120.00		
						Total Qty	**120.00**	**80.00**	**9600.00**
41	Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. a) 19/20 mm dia 2 mm thick (ELE SR 2021-22 Page-1, Item-1.2.1)								

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
		m							
	a) 19/20 mm dia 2 mm thick								
			1	150.00			150.00		
						Total Qty	150.00	61.00	9150.00
42	Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. (ELE SR 2021-22 Page-1, Item-1.2.2)								
		m							
	b) 25mm dia 2mm thick								
			1	120.00			120.00		
						Total Qty	120.00	70.00	8400.00
43	Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary. a) 19/20 mm dia 2 mm thick (ELE SR 2021-22 Page-1, Item-1.3.1)								
		m							
	a) 19/20 mm dia 2 mm thick								
			1	150.00			150.00		
						Total Qty	150.00	75.00	11250.00
44	Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary. (ELE SR 2021-22 Page-1, Item-1.3.2)								
		m							
	b) 25mm dia 2mm thick								
			1	120.00			120.00		
						Total Qty	120.00	80.00	9600.00
45	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.(ELE SR 2021-22 Page-1, Item-1.4)								
		each							
	c) 135x75x65mm		15				15.00	131.00	1965.00
	d)180x90x65mm		15				15.00	155.00	2325.00
	e)200x90x65mm		15				15.00	169.00	2535.00
46	Supplying and fixing PVC/metal conduit accessories.(3/5) (ELE SR 2021-22 Page-1, Item-1.5)								
	1. Special type junction	each							
	b)25mm junction box		20				20.00	51.00	1020.00
	2. Deep junction box								
	c) 32mm deep junction box		20				20.00	69.00	1380.00
47	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work cpmplete.(ELE SR 2021-22 Page-2, Item-1.6)								
		m							
	a)12xx"12"x3" (330x300x76mm)		12				12.00	112.00	1344.00
	b)12"x9"x3" (300x228x76)		6				6.00	105.00	630.00
48	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. (ELE SR 2021-22 Page-2, Item-2.1)								
		each							

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	a) Short point up to 3Mtr from tapping point to out let via switchEach point		10				10.00	276.00	2760.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point)		10				10.00	386.00	3860.00
49	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (ELE SR 2021-22 Page-3, Item-2.2)								
		each							
	a) Short point up to 3Mtr from tapping point to out let via switch		10				10.00	251.00	2510.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box		10				10.00	361.00	3610.00
50	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. (ELE SR 2021-22 Page-5, Item-3.5.3)								
	I.Group-A	each							
	e) 6Moudule		10				10.00	244.00	2440.00
51	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate..(ELE SR 2021-22 Page-5, Item-3.6)								
	I.Using Group "A" materials	each							
	a) 6Amps one way.		4				4.00	88.00	352.00
	i) 32Amps DP switch		4				4.00	375.00	1500.00
	j) 6/16Amps universal socket		10				10.00	249.00	2490.00
52	Supplying and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on 230 Volts, 50Hz AC supply &completely wired on existing box. (ELE SR 6 Page-6, Item-3.7)								
	I.Using Group "A" materials	each							
			6				6.00	747.00	4482.00
53	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. (ELE SR 2021-22 Page-3, Item-2.3)								
		m							
	b. 1.5 sqmm		1	220.00			220.00	26.00	5720.00
	c. 2.5 sqmm		1	180.00			180.00	40.00	7200.00
	d.4 sqmm		1	120.00			120.00	59.00	7080.00
54	Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm .... Etc as required. 20mm (ELE SR 2021-22 Page-2, Item-1.8)								
		m							
	a) 20mm		10				10.00	27.00	270.00
55	Supplying PVC/GI flexible conduit pipe 20mm dia fixing on surface over inverted wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pipe terminated completely. (ELE SR 2021-22 Page-2, Item-1.9)								
		Nos							
	a) 20mm		10				10.00	25.00	250.00
56	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. 110mm (ELE SR 2021-22 Page-6, Item-3.10.2)								

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
		Nos							
	b) 110mm								
57	Supplying a 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slap. (ELE SR 2021-22 Page-6, Item-3.11)		10				10.00	12.00	120.00
		Nos							
			10				10.00	8.00	80.00
58	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40 A SP (ELE SR 2019-20 Page-13, Item-5.17.2)								
		each							
			5				5.00	726.00	3630.00
59	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40 A DP (ELE SR 2019-20 Page-13, Item-5.17.2)								
		each							
			10				10.00	1363.00	13630.00
60	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40 A DP (ELE SR 2019-20 Page-13, Item-5.17.2)								
		each							
			10				10.00	1363.00	13630.00
61	Supplying and fixing of slim box fitting, made out of CRCA Sheet metal body with locking type holder completely wired. Excluding Ballast & Flouresent Tube. 1 x 4' Tube light fitting. (ELE SR 2019-20 Page-41, Item-12.25.2)								
		each							
			24				24.00	310.00	7440.00
62	Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content & below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen on 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. Operating voltage range from 180V to 265V, 50Hz AC power Supply 28 watts Lamp (ELE SR 2021-22 Page-40, Item-12.18.2)								
		each							
			24				24.00	172.00	4128.00
63	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc, for operation on 230 V, 50 cycles. Single phase AC supply conforming to ISS-374- 1979 and with double ball bearing system. 56" Sweep (1400 mm) Regular model (ELE SR 2021-22 Page-22, Item-6.3.2)								
		each							
			8				8.00	2170.00	17360.00
64	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S" hook with fan regulator to the existing board together with supplying and fixing 5 A. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring. (ELE SR 2021-22 Page-46, Item-13.10)								
		each							
			8				8.00	162.00	1296.00

Scanned with CamScanner

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
65	Supplying of recess mounting non integrated type LED down light..... W luminaire comprising of pressure decast/ extruded aluminium housing, with spring loaded false ceiling clA, LED of Power/COB with CCT 6500 degree K, CRI> 70%. efficacy >100 lumen per W, 120degree beam spread, life> 25000 burning hours and Compliance to IS10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level. LED's are driven by HF electronic driver integrated in a separate control gear assembly., with PF > 0.95, power loss should< 5% of lamp Wage, short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 V. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. 10-12W (ELE SR 2021-22 Page-34, Item-11.4.2)								
		each							
			20				20.00	1478.00	29560.00
66	Fixing all types and all capacities of fluorescent /false ceiling /spot light / CFL / LED fittings indoor on the wall/ ceiling /rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clA. On wall/ ceiling / Rafter / Girders (ELE SR 2021-22 Page-45, Item-13.7.1)								
		each							
			20				20.00	119.00	2380.00
								Construction Total Amount	8386416.70
								Add GST Charges 18%	1509555.01
								Add PMC Charges 1.0%	100000.00
								Sub Total	9995971.71
								Miscellaneous and unforeseen charges etc.L.S	4028.29
								Grand Total	10000000.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of 2021-22 of Issue Rates on 07.07.2022

Assistant Engineer
Ward No.04, Attur
BBMP, Bangalore

Assistant Executive Engineer
Yelahanaka New Town Sub Division
BBMP, Bangalore

Executive Engineer
Yelahanaka Division
BBMP, Bangalore

Administrative Sanction for Rs. ...100.00 Lakhs...
...Rupees One Crore Only...
.....
is accorded under head ...P-9178...
...Deputy Manager Grants...
.....
Registered as CE No. ...43... Subject to conditions contained in enclosed memo
No.BBMP/EE/YNTN/AS/43/2022-23 Dt.09/9/2022

Technical Sanction
Accorded For .100.00 Lakhs
Head of A/C...P-9178...
CER NO :...130..... Dt:19/9/2022

Scanned with CamScanner